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Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed May 16 15:12:21 EDT 2007

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Application No: 10553491

Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-16 12:32:14.849

Finished: 2007-05-16 12:32:28.599

Elapsed: 0 hr(s) 0 min(s) 13 sec(s) 750 ms

Total Warnings: 108

Total Errors: 65

No. of SeqIDs Defined: 117

Actual SeqID Count: 117

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)

Input Set :

Output Set:

**Started:** 2007-05-16 12:32:14.849

**Finished:** 2007-05-16 12:32:28.599

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Total Warnings: 108

Total Errors: 65

No. of SeqIDs Defined: 117

Actual SeqID Count: 117

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
E 257	Invalid sequence data feature in <221> in SEQ ID (114)
E 257	Invalid sequence data feature in <221> in SEQ ID (114)
E 257	Invalid sequence data feature in <221> in SEQ ID (114)
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E 257	Invalid sequence data feature in <221> in SEQ ID (114) This error has occurred more than 20 times, will not be displayed



# Sequence Listing

<110> Heidi Jenii Ackerly Wallweber et al.

<120> Compositions and Methods Relating to STOP-1

<130> P5104R1

<140> 10553491

<141> 2007-05-16

<150> US 10/553,491

<151> 2005-10-14

<150> PCT/US2004/011793

<151> 2004-04-16

<150> US 60/463,656

<151> 2003-04-16

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<211> 1257

<212> DNA

<213> Homo sapiens

<400> 1

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ccgcctccag ctccgcgctg cccggcagcc gggagccatg cgaccccagg 150
gccccgccgc ctccccgcag cggtccgcg gcctcctgct gctcctgctg 200
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attgaagcta taatttattt ggaccaagga agccctgaaa tgaattcaac 700
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ttattatgcc ttggaatggt tcacttaaata gacattttta ataagtttat 950  
gtatacatct gaatgaaaag caaagctaaa tatggtttaca gaccaaagtg 1000  
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ctcttagtat agcattttta aaaaaatata aaagctacca atctttgtac 1200  
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<212> PRT  
<213> Homo sapiens

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1 5 10 15  
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20 25 30  
Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg  
35 40 45  
Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala  
50 55 60  
Gly Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro  
65 70 75  
Gly Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys  
80 85 90  
Gly Glu Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn  
95 100 105  
Tyr Lys Gln Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu  
110 115 120  
Gly Lys Ile Ala Glu Cys Thr Phe Thr Lys Met Arg Ser Asn Ser  
125 130 135

Ala	Leu	Arg	Val	Leu	Phe	Ser	Gly	Ser	Leu	Arg	Leu	Lys	Cys	Arg	140	145	150
Asn	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asn	Gly	Ala	Glu	155	160	165
Cys	Ser	Gly	Pro	Leu	Pro	Ile	Glu	Ala	Ile	Ile	Tyr	Leu	Asp	Gln	170	175	180
Gly	Ser	Pro	Glu	Met	Asn	Ser	Thr	Ile	Asn	Ile	His	Arg	Thr	Ser	185	190	195
Ser	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	Gly	Ala	Gly	Leu	Val	Asp	200	205	210
Val	Ala	Ile	Trp	Val	Gly	Thr	Cys	Ser	Asp	Tyr	Pro	Lys	Gly	Asp	215	220	225
Ala	Ser	Thr	Gly	Trp	Asn	Ser	Val	Ser	Arg	Ile	Ile	Ile	Glu	Glu	230	235	240

Leu Pro Lys

<210> 3  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 3

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Leu	Leu	Leu	Leu	Leu	Leu	Leu	Gln	Leu	Pro	Ala	Pro	Ser	Ser	Ala	20	25	30	
Ser	Glu	Ile	Pro	Lys	Gly	Lys	Gln	Lys	Ala	Gln	Leu	Arg	Gln	Arg	35	40	45	
Glu	Val	Val	Asp	Leu	Tyr	Asn	Gly	Met	Cys	Leu	Gln	Gly	Pro	Ala	50	55	60	
Gly	Val	Pro	Gly	Arg	Asp	Gly	Ser	Pro	Gly	Ala	Asn	Gly	Ile	Pro	65	70	75	
Gly	Thr	Pro	Gly	Ile	Pro	Gly	Arg	Asp	Gly	Phe	Lys	Gly	Glu	Lys	80	85	90	
Gly	Glu	Cys	Leu	Arg	Glu	Ser	Phe	Glu	Glu	Ser	Trp	Thr	Pro	Asn	95	100	105	
Tyr	Lys	Gln	Cys	Ser	Trp	Ser	Ser	Leu	Asn	Tyr	Gly	Ile	Asp	Leu	110	115	120	
Gly	Lys	Ile	Ala	Glu	Cys	Thr	Phe	Thr	Lys	Met	Arg	Ser	Asn	Ser	125	130	135	

Ala	Leu	Arg	Val	Leu	Phe	Ser	Gly	Ser	Leu	Arg	Leu	Lys	Cys	Arg	140	145	150
Asn	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asn	Gly	Ala	Glu	155	160	165
Cys	Ser	Gly	Pro	Leu	Pro	Ile	Glu	Ala	Ile	Ile	Tyr	Leu	Asp	Gln	170	175	180
Gly	Ser	Pro	Glu	Met	Asn	Ser	Thr	Ile	Asn	Ile	His	Arg	Thr	Ser	185	190	195
Ser	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	Gly	Ala	Gly	Leu	Val	Asp	200	205	210
Val	Ala	Ile	Trp	Val	Gly	Thr	Cys	Ser	Asp	Tyr	Pro	Lys	Gly	Asp	215	220	225
Ala	Ser	Thr	Gly	Trp	Asn	Ser	Val	Ser	Arg	Ile	Ile	Ile	Glu	Glu	230	235	240
Leu	Pro	Lys															

<210> 4  
 <211> 245  
 <212> PRT  
 <213> Mus musculus

<400> 4

Met	His	Pro	Gln	Gly	Arg	Ala	Ala	Pro	Pro	Gln	Leu	Leu	Leu	Gly	1	5	10	15
Leu	Phe	Leu	Val	Leu	Leu	Leu	Leu	Leu	Gln	Leu	Ser	Ala	Pro	Ser	20	25	30	
Ser	Ala	Ser	Glu	Asn	Pro	Lys	Val	Lys	Gln	Lys	Ala	Leu	Ile	Arg	35	40	45	
Gln	Arg	Glu	Val	Val	Asp	Leu	Tyr	Asn	Gly	Met	Cys	Leu	Gln	Gly	50	55	60	
Pro	Ala	Gly	Val	Pro	Gly	Arg	Asp	Gly	Ser	Pro	Gly	Ala	Asn	Gly	65	70	75	
Ile	Pro	Gly	Thr	Pro	Gly	Ile	Pro	Gly	Arg	Asp	Gly	Phe	Lys	Gly	80	85	90	
Glu	Lys	Gly	Glu	Cys	Leu	Arg	Glu	Ser	Phe	Glu	Glu	Ser	Trp	Thr	95	100	105	
Pro	Asn	Tyr	Lys	Gln	Cys	Ser	Trp	Ser	Ser	Leu	Asn	Tyr	Gly	Ile	110	115	120	
Asp	Leu	Gly	Lys	Ile	Ala	Glu	Cys	Thr	Phe	Thr	Lys	Met	Arg	Ser	125	130	135	



Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser Leu Arg Leu Lys		
	140	150
Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr Phe Asn Gly		
	155	165
Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile Tyr Leu		
	170	180
Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile His Arg		
	185	195
Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu		
	200	210
Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys		
	215	225
Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile		
	230	240
Glu Glu Leu Pro Lys		
	245	

<210> 5

<211> 229

<212> PRT

<213> Oryzias latipes

<400> 5

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	20	30
Lys Asp Pro Asp Ala Asp Lys Phe Gly Ser Cys Leu Gln Gly Pro		
	35	45
Ala Gly Thr Pro Gly Arg Asp Gly Asn Pro Gly Ala Asn Gly Ile		
	50	60
Pro Gly Thr Pro Gly Ile Pro Gly Arg Asp Gly Leu Lys Gly Glu		
	65	75
Lys Gly Glu Cys Val Ser Glu Val Phe Glu Glu Pro Trp Lys Pro		
	80	90
Asn Tyr Lys Gln Cys Ala Trp Asn Ser Leu Asn Tyr Gly Ile Asp		
	95	105
Leu Gly Lys Ile Ala Asp Cys Thr Phe Thr Lys Leu Arg Ser Glu		
	110	120
Ser Ala Leu Arg Val Leu Phe Thr Gly Ser Leu Arg Leu Lys Cys		
	125	135

Lys	Glu	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asp	Gly	Ala
				140					145					150
Glu	Cys	Thr	Gly	Pro	Leu	Pro	Val	Glu	Ser	Ile	Ile	Tyr	Leu	Asn
				155					160					165
Gln	Gly	Ser	Pro	Glu	Leu	Asn	Ser	Thr	Ile	Asn	Ile	His	Arg	Thr
				170					175					180
Ser	Ser	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	Lys	Ala	Gly	Leu	Val
				185					190					195
Asp	Val	Ala	Leu	Trp	Val	Gly	Thr	Cys	Ala	Asp	Tyr	Pro	Arg	Gly
				200					205					210
Asp	Ala	Ser	Thr	Gly	Trp	Asn	Ser	Val	Ser	Arg	Ile	Ile	Ile	Glu
				215					220					225
Glu	Leu	Pro	Lys											

<210> 6

<211> 231

<212> PRT

<213> Danio rerio

<400> 6

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Leu	Pro	Phe	Cys	Val	Thr	Gln	Lys	Ala	Lys	Glu	Arg	Ile	Pro	Arg
				20					25					30
Gln	Arg	Asp	Ala	Glu	Phe	Thr	Asp	Lys	Tyr	Gln	Ala	Cys	Val	Gln
				35					40					45
Gly	Val	Pro	Gly	Val	Gln	Gly	Arg	Asp	Gly	Asn	Pro	Gly	Ile	Asn
				50					55					60
Gly	Ile	Pro	Gly	Thr	Pro	Gly	Ile	Pro	Gly	Arg	Asp	Gly	Leu	Lys
				65					70					75
Gly	Glu	Lys	Gly	Glu	Cys	Val	Ser	Glu	Arg	Phe	Glu	Glu	Pro	Trp
				80					85					90
Lys	Pro	Asn	Phe	Lys	Gln	Cys	Ala	Trp	Asn	Ser	Leu	Asn	Tyr	Gly
				95					100					105
Ile	Asp	Leu	Gly	Lys	Ile	Ala	Glu	Cys	Thr	Phe	Thr	Lys	Gln	Arg
				110					115					120
Ser	Asp	Ser	Ala	Leu	Arg	Val	Leu	Phe	Ser	Gly	Ser	Leu	Arg	Leu
				125					130					135
Lys	Cys	Lys	Thr	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asn
				140					145					150

Gly	Ala	Glu	Cys	Thr	Gly	Pro	Leu	Pro	Ile	Glu	Ser	Ile	Val	Tyr	
				155					160					165	
Leu	Asp	Gln	Gly	Ser	Pro	Glu	Leu	Asn	Ser	Thr	Ile	Asn	Ile	His	
				170					175					180	
Arg	Thr	Ser	Thr	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	His	Ala	Gly	
				185					190					195	
Leu	Val	Asp	Val	Gly	Ile	Trp	Val	Gly	Thr	Cys	Ala	Asp	Tyr	Pro	
				200					205					210	
Arg	Gly	Asp	Ala	Ser	Thr	Gly	Trp	Asn	Ser	Val	Ser	Arg	Val	Ile	
				215					220					225	
Ile	Glu	Glu	Leu	Pro	Lys										
				230											

<210> 7

<211> 201

<212> PRT

<213> Gallus gallus

<400> 7

Arg	Pro	Arg	Glu	Val	Leu	Glu	Ala	Tyr	Asn	Gly	Val	Cys	Leu	Gln	
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Gly	Pro	Ser	Gly	Val	Pro	Gly	Arg	Asp	Gly	Asn	Pro	Gly	Thr	Asn	
				20					25					30	
Gly	Ile	Pro	Gly	Thr	Pro	Gly	Ile	Pro	Gly	Arg	Asp	Gly	Pro	Lys	
				35					40					45	
Gly	Glu	Lys	Gly	Glu	Cys	Leu	Arg	Glu	Ser	Ile	Glu	Glu	Ser	Trp	
				50					55					60	
Thr	Pro	Asn	Phe	Lys	Gln	Cys	Ser	Trp	Ser	Ala	Leu	Asn	Tyr	Gly	
				65					70					75	
Ile	Asp	Leu	Gly	Lys	Ile	Ala	Glu	Cys	Thr	Phe	Thr	Lys	Met	Arg	
				80					85					90	
Ser	Asn	Ser	Ala	Leu	Arg	Val	Leu	Phe	Ser	Gly	Ser	Leu	Arg	Leu	
				95					100					105	
Lys	Cys	Arg	Ser	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asn	
				110					115					120	
Gly	Ala	Glu	Cys	Ala	Gly	Pro	Leu	Pro	Ile	Glu	Ala	Ile	Ile	Tyr	
				125					130					135	
Leu	Asp	Gln	Gly	Ser	Pro	Glu	Leu	Asn	Ser	Thr	Ile	Asn	Ile	His	
				140					145					150	
Arg	Thr	Ser	Ser	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	Asn	Ala	Gly	
				155					160					165	

Leu Val Asp Ile Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro  
170 175 180

Arg Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile  
185 190 195

Ile Glu Glu Leu Pro Lys  
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<212> PRT

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<210> 9

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<210> 10

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Cys Ala Arg Val Gly Gly Leu Lys Leu Leu Phe Asp Tyr  
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                  5                  10

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Thr Ile Asn Asn Tyr Asp  
                  5

<210> 15  
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<212> PRT  
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Gly Tyr Ile Ser Pro Pro Ser Gly Ala Thr Tyr  
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<212> PRT

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<210> 18

<211> 11

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Ala Trp Ile Ala Pro Tyr Ser Gly Ala Thr Asp  
5 10

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<211> 10

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